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Leap Wireless Sensor System

Pulsar Flow Meter Device User Manual

53-100187-24

Revision 1.0

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1. About this Manual

This User Manual describes specific configuration and usage of the **Leap Flood Sensor Device**.

For general information on the Leap Wireless Sensor system, see the Quick Start Guide and the main user manual – 53-100187-01.

2. Hardware Configuration – Water Detection

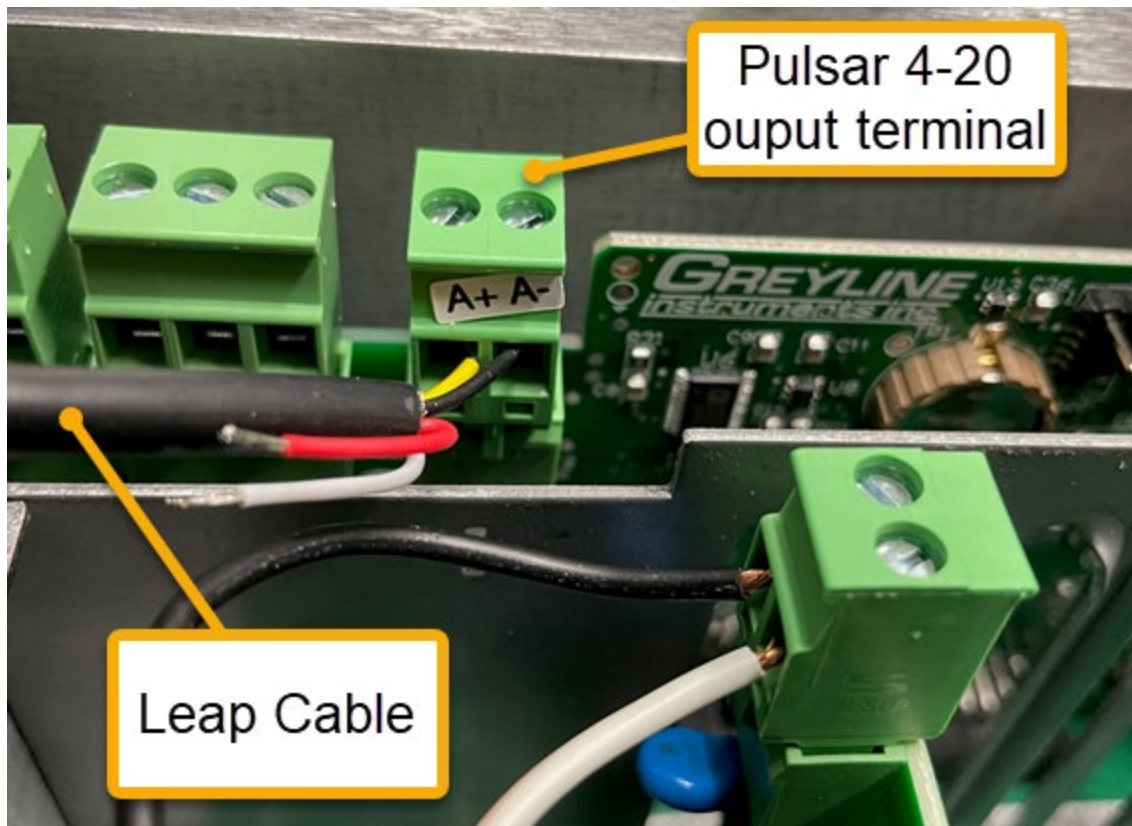
The Pulsar Flow Meter is powered separately and outputs a 4-20mA signal that translates to a water flow.

This user manual explains how to connect the Leap Sensor Device Node to the Pulsar sensor to bring the 4-20mA signal into the Leap Device Node.

2.1 Connecting the Leap Device to the Pulsar Flow Meter

The cable exiting the Leap Sensor Device has 4 wires:

- Yellow – 4-20mA signal into the Leap Sensor – connect to the “A+” in the Pulsar meter.
- Black – Ground – connect to the “A-” on the pulsar meter
- Red – not used
- White – not used



2.2 Leap Terminal Block Pin-Out

The pin-out to the terminal block inside the Leap Module is shown below.

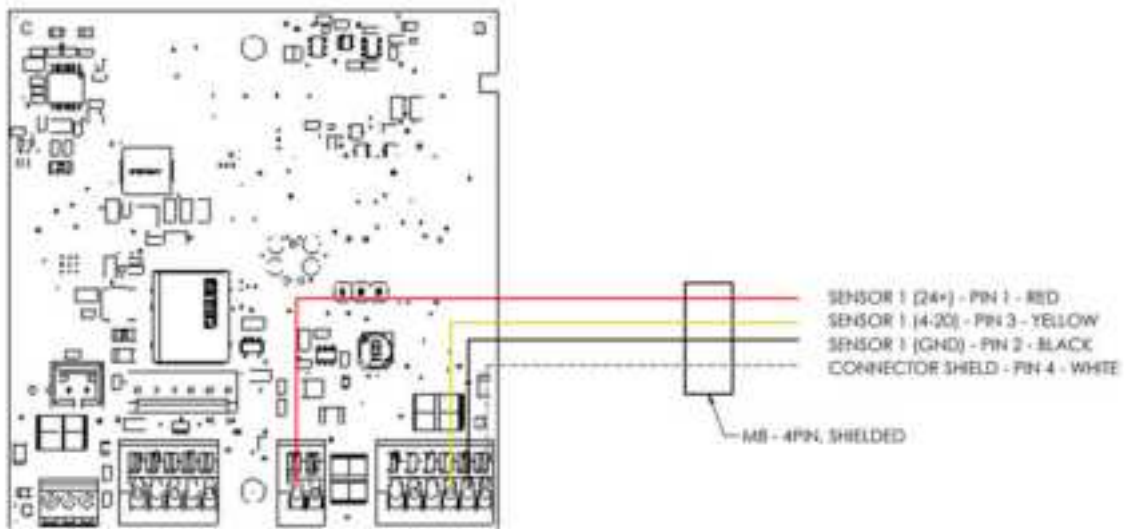
To open the lid of the Leap Node, use a screwdriver in the slot on the right side. Press down, then pivot to the right to pop open the hinge. See the video demonstration of opening the lid:

<https://www.phaseivengr.com/about-us/support/> “Opening & Closing the Transceiver Node Enclosure”

For a 4-20 mA sensor, the pin-out is shown below.

For the Pulsar Flow sensor

- The red wire is not connected because the Leap sensor is not powering the sensor.
- White wire is not connected to the Leap sensor
- The cable shield is not connected



3. Software Interface

3.1 *Converting the 4-20mA signal to a flow measurement*

The configuration menu allows you to convert the 4-20mA signal to a flow measurement. See the screenshots below.

SCREEN SHOTS OF 4-20 CONVERSION

3.2 *Bench Testing the Leap Sensor with the Pulsar Flow Meter*

The Pulsar Flow Meter has a simulation mode where it can output a user-set output. This is useful when testing the Leap sensor connection to the 4-20mA output.

Follow the instruction with the Pulsar meter to get into the simulation mode.



4. Technical Support

For more information about our products and services, or for technical assistance:

Visit us at: www.phaseivengr.com
Tel: +(303) 443 6611 (USA – MST 8:00 a.m. to 5:00 p.m., Mon.-Fri.)
E-Mail: support@phaseivengr.com

If you need assistance, please provide the product part number, product serial number, and product version.